

Title (en)

SYSTEM FOR CHARGING AN ENERGY STORE, AND METHOD FOR OPERATING THE CHARGING SYSTEM

Title (de)

SYSTEM ZUM LADEN EINES ENERGIESPEICHERS UND VERFAHREN ZUM BETRIEB DES LADESYSTEMS

Title (fr)

SYSTÈME POUR CHARGER UN ACCUMULATEUR D'ÉNERGIE ET PROCÉDÉ DE FONCTIONNEMENT DU SYSTÈME DE CHARGEMENT

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Application

EP 11761022 A 20110825

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Abstract (en)

[origin: WO2012038186A2] The invention relates to a power supply system comprising an n-phase electric machine, where $n=1$, and a controllable first energy store (2) used for controlling and supplying electric power to the electric machine (1). The first energy store (2) has n parallel power supply branches (3-1, 3-2, 3-3), each of which has at least two serially connected energy storage modules (4). Each energy storage module comprises at least one electric power cell (5) having an associated controllable coupling unit (6) and is connected to a reference bus (T-) and to one respective phase (U, V, W) of the electric machine (1). The coupling units (6) bridge the associated power cells (5) or connect the associated power cells (5) to the power supply branch (3-1, 3-2, 3-3) in accordance with control signals. The power supply system also comprises a second energy store (9; 9') which can supply DC voltage to electric consumers (10; 10'). A charging device (11) for the second energy store (9; 9') is connected to the power supply branches (3-1, 3-2, 3-3) of the first energy store (2) and the phases (U, V, W) of the electric machine (1) at the input end while being connected to the second energy store (9; 9') at the output end.

IPC 8 full level

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